

A new era dawns on the datascape™

Introducing The Database Machine™

In one bold stroke, COGENT has solved the problem of simultaneous distributed data access: A back-end database processor that incorporates Winchester control, database commands and a multi-tasking operating system.

The ultimate Winchester Controller. The Database Machine™ is the smartest, fastest LSI Winchester Controller on the datascape. Fully **six times** faster than the IBM XT fixed disc adapter. A 64K file writes in just over a tenth of a second!

A true database co-processor. With built-in database commands, The Database Machine™ turns software into fastware. You get shared file access, record locking and password security essential to serious business applications.

... and now the AT!

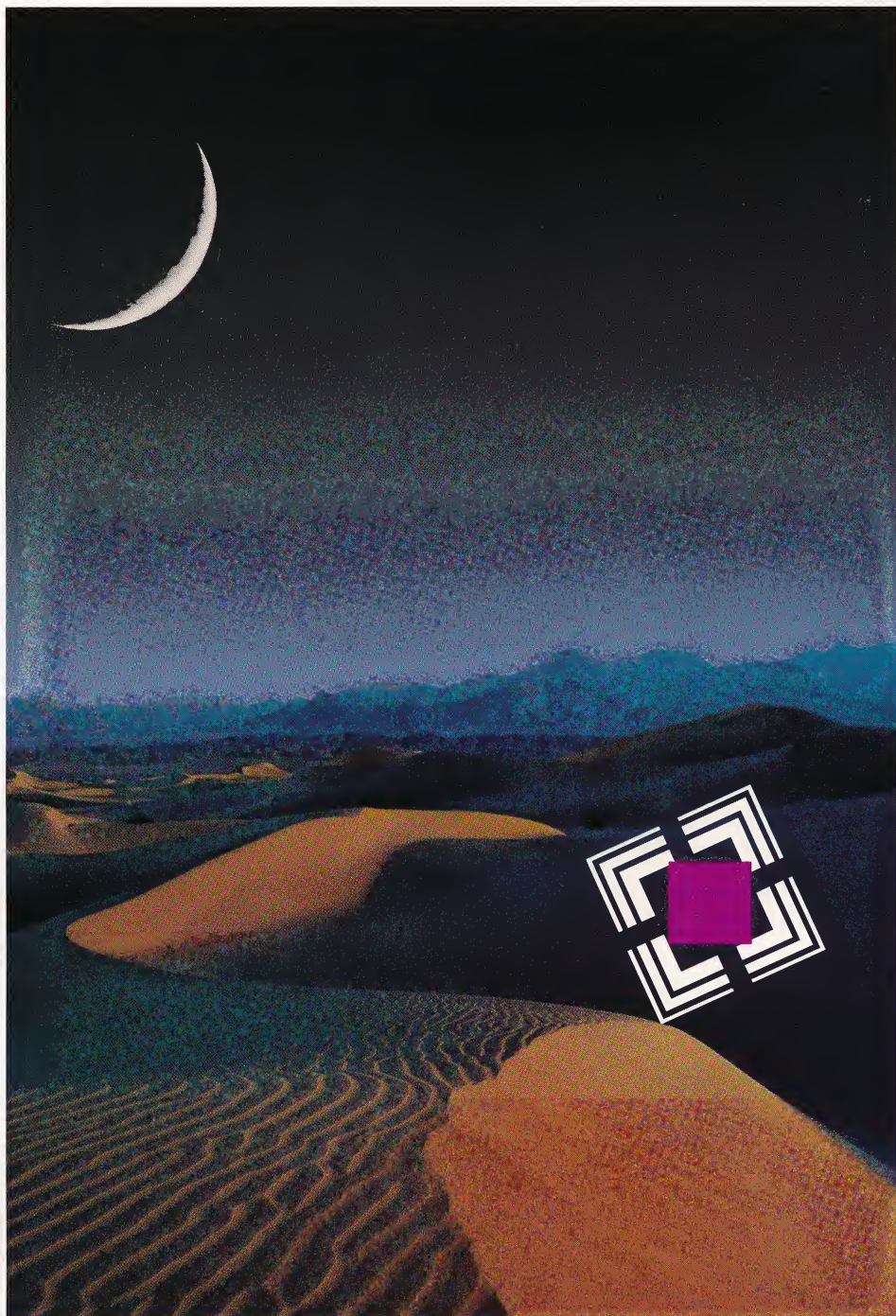
Now networks really work. The Database Machine™ ends frustrating slowdowns, giving every network user instantaneous access to the same files including those on other discs in the network.

If there's a PC on your corporate horizon, it's time The Database Machine™ dawned on you. Call COGENT today. (206) 455-3343

The Database Machine™

- IBM-PC, IBM-XT and PC-3270 compatible
- PC-DOS, CP/M and UNIX compatible
- Imbedded database silicon software
- 8Mhz 80186 co-processor
- LSI Winchester controller
- 64K high-speed triple-ported buffer
- 128K multi-task RAM

cogent™

IBM, XT, CP/M, UNIX are registered trademarks of, respectively, International Business Machines, Digital Research, and Bell Laboratories.

The Database Machine™

First shared, multi-user database system for the PC.

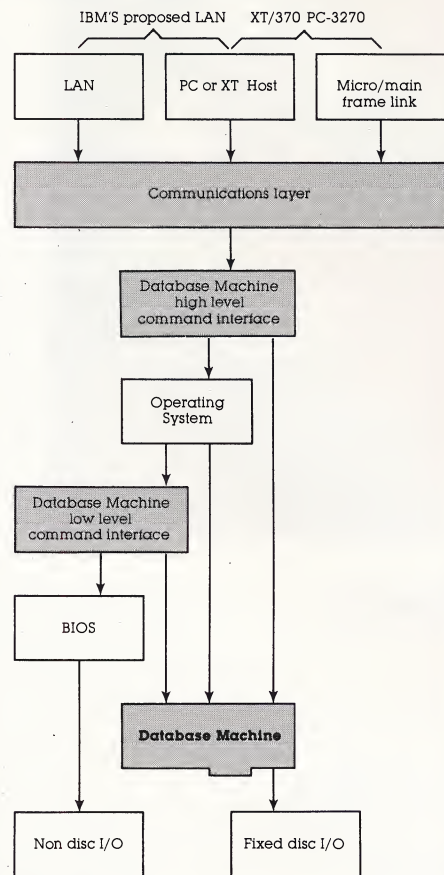
Hard disc access time for a networked IBM PC can now be measured in milliseconds instead of minutes thanks to The Database Machine™. COGENT's new backend processor for multi-user access to distributed databases.

A plug-compatible card for the IBM PC, it gives single users enhanced disc access speed, while providing network or mainframe-to-micro systems with true simultaneous, multi-user access to shared files.

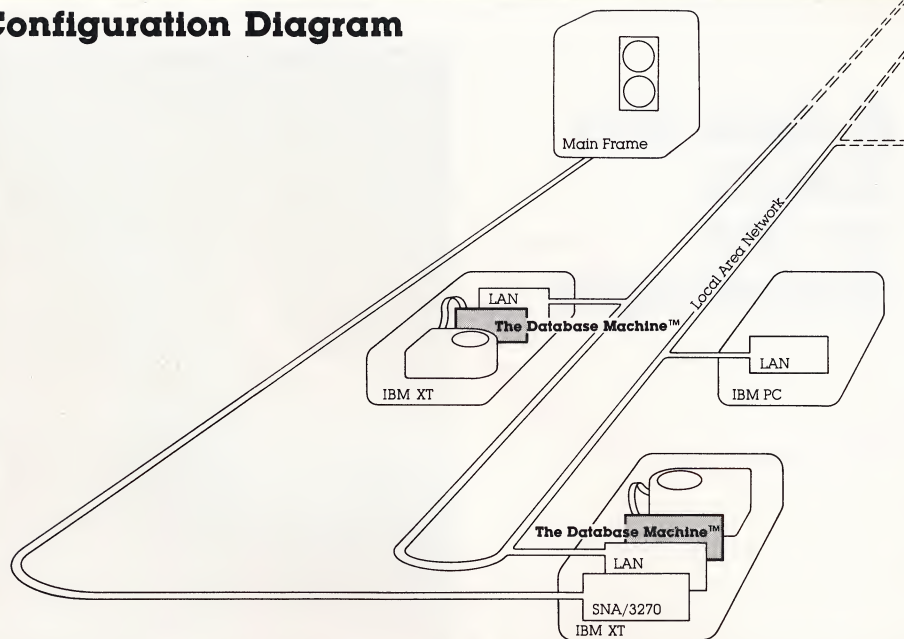
The Database Machine™ includes one of the industry's fastest LSI Winchester fixed disc controllers as well as an imbedded multi-tasking operating system kernel with DBX™.

Only one Database Machine™ card is required for each hard disc in the PC network.

Operational Systems Flow Diagram



Configuration Diagram



Hardware Features

- 80186 CPU at 8MHz
- 128K working RAM
- 64K high-speed, triple-ported buffer RAM
- 40K of PROM
- 5 DMA channels (1MB/sec)
- occupies 3 user-selectable I/O ports
- 4 level priority interrupts
- PC-XT power supply compatible

Disc Controller Features

- LSI Winchester controller
- full cylinder buffering
- extended and buffered disc directory/FAT
- interleaved DMA for no-wait access
- zero sector interleave factor
- imbedded diagnostics with error reporting at mainframe standards

Fastware features

- 128 simultaneous tasks
- 1,000,000 10-byte keys possible
- open shared files with record locking
- full multi-user OS kernel
- high-performance primitives for standard hard disc I/O
- hardware implemented B+ tree file access
- fully layered firmware (fastware) design
- automatic time/date stamping
- password and priority systems
- DBX database extensions for host OS

Compatibility

Operating systems: PC-DOS, UNIX, CP/M

Communications: CSMA/CD, Ethernet, PC-Net, 3270, SNA & token network protocols

Hardware: IBM PC, IBM XT, and 3270-PC bus compatible

Software: All PC-DOS, UNIX, CP/M programs. High-performance versions of selected database and applications software available soon.

Hard disc: All ST506 fixed disc Winchesters including voice coil and 300 MB drives.

DBX commands

Level I: Keyed File Access

Search on key
Get next
Get previous
Get first
Get last
Read after search
Write after search
Generic search
Insert
Delete
Replace
Auto open file
Close file

Price

\$1500 to \$1700 depending on configuration and programmers' utilities. OEM pricing available.

For further information...

Call or write:
COGENT Data Technologies
(206) 455-3343
P.O. Box 3902 Bellevue, WA 98009